

# WASTEWATER DISCHARGE PERMIT

THE FIRM OR CORPORATION NAMED HEREIN IS AUTHORIZED TO DISCHARGE REGULATED WASTEWATER INTO THE SANITARY SEWER IN ACCORDANCE WITH ALL CONDITIONS IN THIS PERMIT AND CHAPTER 35 OF THE MOUNTAIN VIEW CITY CODE.

Permitted **Applied NanoStructures, Inc.**  
Facility **415 Clyde Avenue Unit 102-104**

Applied NanoStructures, Inc.  
415 Clyde Ave., Unit 102-104  
Mountain View, CA 94043  
Attn: Joe Willard

Date Issued: **7/26/2013**  
Effective Date: **8/2/2013**  
Date Revised: **9/26/2013**  
Date Expires: **5/1/2014**  
Permit ID: **601**

EPA Category/Subcategory: **Metal Finishing/Metal Finishing (Non-Copper)**  
Reference: **CFR 40, Section 433.10-12 & 433.17, New Source**

**Jaymae Wentker**  
Jaymae Wentker, Fire Marshal

**POST IN A CONSPICUOUS PLACE  
AT THE "PERMITTED FACILITY" SITE**

## I. Discharge Limitations:

Process Discharge (industrial waste) shall not exceed 172 Gallons Per Day (GPD).  
(Location A1: 172 GPD )  
Total Discharge (industrial and domestic waste) shall not exceed 422 Gallons Per Day (GPD).

## II. Special Conditions/Requirements:

1. All self-monitoring sampling results shall be submitted to the City upon receipt.
2. Use pH meters to confirm wastewater meets pH discharge limits before discharge to the sanitary sewer. Keep a log of pH discharge results.
3. In lieu of monitoring for Total Toxic Organics (TTO) Applied NanoStructures, Inc. shall submit a Toxic Organic Management Plan. (CFR 433.12)

## III. Self-Monitoring Sampling Analysis:

Pollutant	Sampling Frequency	Sample Type	Sampling Location(s)*	Federal Maximum	Federal Avg. of daily values for 30 consec. days	Local Limit
				for any 1 day (mg/L)	(mg/L)	(mg/L)
<b>Cadmium</b>	Semi-Annually	24-Hr. Composite	A1	0.11	0.07	.1
<b>Chromium, Total</b>	Semi-Annually	24-Hr. Composite	A1	2.77	1.71	2
<b>Copper</b>	Semi-Annually	24-Hr. Composite	A1	3.38	2.07	.25
<b>Cyanide</b>	Semi-Annually	Grab	A1	1.20	0.65	.5
<b>Lead</b>	Semi-Annually	24-Hr. Composite	A1	0.69	0.43	.5
<b>Nickel</b>	Semi-Annually	24-Hr. Composite	A1	3.98	2.38	.5

\*Sampling Location A1 is in the southeast area of the parking lot near the building.

#### IV. Wastewater Discharge Limits: (MVCC 35.32.12 & CFR 40)

Your industrial wastewater effluent shall not exceed the following limits:

Discharge Parameter	Federal Max. for any 1 day	Federal Avg. of daily values for 30 consecutive days	Local <sup>3</sup>	Discharge Parameter	Federal Max. for any 1 day	Federal Avg. of daily values for 30 consecutive days	Local <sup>3</sup>
Arsenic	No Limit	No Limit	0.1 mg/L <sup>1</sup>	Manganese	No Limit	No Limit	1.0 mg/L <sup>1</sup>
Barium	No Limit	No Limit	5.0 mg/L <sup>1</sup>	Mercury <sup>2</sup>	No Limit	No Limit	0.01 mg/L <sup>2</sup>
Beryllium	No Limit	No Limit	0.75 mg/L <sup>1</sup>	Nickel	3.98 mg/L	2.38 mg/L	0.5 mg/L
Boron	No Limit	No Limit	1.0 mg/L <sup>1</sup>	Oil & Grease	No Limit	No Limit	200 mg/L
Cadmium	0.69 mg/L	0.26 mg/L	0.1 mg/L <sup>1</sup>	Phenols	No Limit	No Limit	1.0 mg/L
Chromium Hex.	No Limit	No Limit	1.0 mg/L <sup>1</sup>	pH	No Limit	No Limit	5.0-11
Chromium, Total	2.77 mg/L	1.71 mg/L	2.0 mg/L <sup>1</sup>	Selenium	No Limit	No Limit	1.0 mg/L <sup>1</sup>
Cobalt	No Limit	No Limit	1.0 mg/L <sup>1</sup>	Silver, Photo	No Limit	No Limit	0.50 mg/L
Copper <sup>4</sup>	3.38 mg/L	2.07 mg/L	2.0 mg/L <sup>1</sup>	Silver, Non-Photo	0.43 mg/L	0.24 mg/L	0.25 mg/L
Copper	No Limit	No Limit	0.25 mg/L	Single Toxic Organic	No Limit	No Limit	0.75 mg/L
Cyanide	1.20 mg/L	0.65 mg/L	0.5 mg/L <sup>1</sup>	Suspended Solids	No Limit	No Limit	6000 mg/L
Fluoride	No Limit	No Limit	65 mg/L	Total Dissolved Solid	No Limit	No Limit	10000 mg/L
Formaldehyde	No Limit	No Limit	5.0 mg/L <sup>1</sup>	Total Toxic Organics <sup>6</sup>	2.13 mg/L	No Limit	1.0 mg/L <sup>1</sup>
Lead	0.69 mg/L	0.43 mg/L	0.5 mg/L <sup>1</sup>	Zinc	2.61 mg/L	1.48 mg/L	2.0 mg/L <sup>1</sup>

<sup>1</sup>If the daily discharge (averaged over a one year period) at any single sampling location exceeds 50,000 gpd, the local discharge limit for that location shall not exceed ONE-HALF (1/2) of the local limit listed above.

<sup>2</sup>Dental facilities using mercury-containing amalgam shall not exceed a local discharge limit of 0.05 mg/L for mercury.

<sup>3</sup>These limits refer to either grab or 24-hour composite samples.

<sup>4</sup>This limit applies only to the following EPA categories: Non-EPA Non-SIUs, Metal Finishing (Copper), and Electroplating. This limit also applies to cooling towers discharging < 2,000 gpd at any facility.

<sup>6</sup> See Section XIII of this permit for a list of components of Total Toxic Organics.

<sup>7</sup>Vehicle service facilities shall not exceed a local discharge limit of 4.0 mg/L for zinc.

#### V. Quality Assurance/Quality Control: (MVCC 35.32.13 & 40 CFR 136)

All metals samples must be collected in duplicate and stored and preserved until the next sampling event for that parameter. The duplicate sample must be labeled as a duplicate and made available to any City inspector.

#### VI. Sample Collection and Analysis: (MVCC 35.32.13.3, 40 CFR 403.12(g)&(h), 40 CFR 136)

All metals shall be collected as specified in the individual permit requirements. Cyanide and Total Toxic Organics (TTO) shall always be collected as grab samples. Samples shall be analyzed by an analytical laboratory approved by the State of Cal. Dept. of Health Services. Sample collection, preservation, and analysis shall be in accordance with EPA regulations (40 CFR 136) and the City of Mountain View's "Sample Collection, Analysis and Reporting Instructions".

#### VII. Violation Reporting & Follow-Up: (MVCC 35.32.6.2 & 40 CFR 403.12(f) & (g))

If the results of sampling or pH analysis exceed applicable limit(s), or any discharges meet the definition of hazardous waste, you shall:

- 1) VERBALLY NOTIFY THE CITY OF MOUNTAIN VIEW AT 650-903-6378 AND THE PALO ALTO WATER QUALITY CONTROL PLANT AT 650-329-2598 WITHIN 24 HOURS of knowledge of the violation. If an accidental discharge, slug discharge, or upset or failure of the pretreatment system occurs, verbal notification shall be made within 15 minutes of knowledge of the condition;
- 2) SUBMIT A WRITTEN REPORT WITHIN 15 WORKING DAYS of knowledge of the violation explaining: the cause, nature volume and duration of the violation, and mitigation measures taken to correct it and prevent reoccurrence;
- 3) INITIATE A SAMPLING/ANALYSIS PROGRAM demonstrating up to 21 consecutive days of compliance. The first sample result shall be submitted within 30 days of becoming aware of the violation.

#### VIII. Penalty Provisions: (MVCC 35.32.15)

Any person who violates any provision of this permit, "Notice of Violation", or Chapter 35 MVCC, may be subject to criminal, civil, or administrative penalties. Civil penalties shall not exceed \$25,000/day per violation. Administrative penalties shall not exceed the following: (1) \$2,000/day for failing or refusing to furnish technical or monitoring reports; (2) \$3,000/day for failing or refusing to comply with a compliance schedule; (3) \$5,000/day/violation for discharges in violation of any waste discharge limitation, permit condition, or requirement; and (4) \$10/gallon for discharges in violation of any suspension, cease and desist order, or any prohibition issued by the City.

### **IX. Record-Keeping Requirements:** (40 CFR 403.12(o))

All Industrial Users shall maintain records for all information resulting from any monitoring activities conducted. Such records shall include for all samples:

- 1) The date, exact place, method, and time of sampling and the names of the person or persons taking the samples;
- 2) The dates analyses were performed;
- 3) Who performed the analyses;
- 4) The analytical techniques/methods used; and
- 5) The results of such analysis.

All Industrial Users shall maintain for a minimum of 3 years any records of monitoring activities and results, and shall make such records available for inspection and copying by the City of Mountain View and Palo Alto Water Quality Control Plant. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Industrial User or the operation of the POTW Pretreatment Program or when requested by the Director or the Regional Administrator.

### **X. Notification of Changed Discharge:** (40 CFR 403.12(j))

All Industrial Users shall promptly notify the City of Mountain View at 650-903-6378 and the Palo Alto Water Quality Control Plant at 650-329-2598 in advance of any substantial change in the volume or character of pollutants in their discharge, including the characteristic hazardous wastes for which the Industrial User has submitted initial notification under 40 CFR 403.12(p).

### **XI. Notification of Bypass:** (40 CFR 403.17(c)(2))

All Industrial Users shall verbally notify the City of Mountain View at 650-903-6378 and Palo Alto Water Quality Control Plant at 650-329-2598 of an unanticipated bypass (intentional diversion of its wastestream from the treatment facility) within 24 hours from the time the Industrial User becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the Industrial User becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.

### **XII. Transferability of Permit:** (MVCC 35.32.2.4)

This permit is not transferable without prior written notification to and approval by the City and the assumption of all permit conditions by the new owner/operator.

### **XIII. Definition of Total Toxic Organics:** (40 CFR 469.12)

The term "total toxic organics" (TTO) means the sum of the concentrations for each of the following toxic organic components found in the discharge at a concentration greater than ten (10) micrograms per liter. The facility's local TTO and STO limits apply to all of the compounds listed below. Those compounds analyzed using EPA Method 601/602 or 624 are identified by a "☐".

☐ Acenaphthene	☐ 2-Chlorophenol	☐ Methyl bromide	☐ Diethyl phthalate	☐ 4,4-DDT
☐ Acrolein	☐ 1,2-Dichlorobenzene	☐ Bromoform	☐ Dimethyl phthalate	☐ ☐ 4,4-DDE
☐ Acrylonitrile	☐ 1,3-Dichlorobenzene	☐ Dichlorobromomethane	☐ 1,2-Benzanthracene	☐ 4,4-DDD
☐ Benzene	☐ 1,4-Dichlorobenzene	☐ Chlorodibromomethane	☐ Benzo(a)pyrene	☐ Alpha-endosulfan
☐ Benzidine	☐ 3,3-Dichlorobenzidine	☐ Hexachlorobutadiene	☐ 3,4-Benzofluoranthene	☐ Beta-endosulfan
☐ Carbon tetrachloride	☐ 1,1-Dichloroethylene	☐ Hexachlorocyclopentadiene	☐ 1,1,12-Benzofluoranthene	☐ Endosulfan sulfate
☐ Chlorobenzene	☐ 1,2-Trans-dichloroethylene	☐ Isophorone	☐ Chrysene	☐ Endrin
☐ 1,2,4-Trichlorobenzene	☐ 2,4-Dichlorophenol	☐ Naphthalene	☐ Acenaphthylene	☐ Endrin aldehyde
☐ Hexachlorobenzene	☐ 1,2-Dichloropropane	☐ Nitrobenzene	☐ Anthracene	☐ Heptachlor
☐ 1,2-Dichloroethane	☐ 1,3-Dichloropropylene	☐ 2-Nitrophenol	☐ 1,12-Benzoperylene	☐ Heptachlor epoxide
☐ 1,1,1-Trichloroethane	☐ 2,4-Dimethylphenol	☐ 4-Nitrophenol	☐ Fluorene	☐ Alpha-BHC
☐ Hexachloroethane	☐ 2,4-Dinitrotoluene	☐ 2,4-Dinitrophenol	☐ Phenanthrene	☐ Beta-BHC
☐ 1,1-Dichloroethane	☐ 2,6-Dinitrotoluene	☐ 4,6-Dinitro-o-cresol	☐ 1,2,5,6-Dibenzanthracene	☐ Gamma-BHC
☐ 1,1,2-Trichloroethane	☐ 1,2-Diphenylhydrazine	☐ N-nitrosodimethylamine	☐ Indeno(1,2,3-cd) pyrene	☐ Delta-BHC
☐ 1,1,2,2-Tetrachloroethane	☐ Ethylbenzene	☐ N-nitrosodiphenylamine	☐ Pyrene	☐ PCB-1242
☐ Chloroethane	☐ Fluoranthene	☐ N-nitrosodi-n-propylamine	☐ Tetrachloroethylene	☐ PCB-1254
☐ Bis(2-chloroethyl) ether	☐ 4-Chlorophenyl phenyl ether	☐ Pentachlorophenol	☐ Toluene	☐ PCB-1221
☐ 2-Chloroethyl vinyl ether	☐ 4-Bromophenyl phenyl ether	☐ Phenol	☐ Trichloroethylene	☐ PCB-1232
☐ 2-Chloronaphthalene	☐ Bis(2-chloroisopropyl)ether	☐ Bis(2-ethylhexyl)phthalate	☐ Vinyl chloride	☐ PCB-1248
☐ 2,4,6-Trichlorophenol	☐ Bis(2-chloroethoxy)methane	☐ Butyl benzyl phthalate	☐ Aldrin	☐ PCB-1260
☐ Parachlormeta cresol	☐ Methylene chloride	☐ Di-n-butyl phthalate	☐ Dieldrin	☐ Toxaphene

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Permitted **Caliper LifeSciences (Bldg. Mgmt. Co.)**

Facility **605 Fairchild Drive**

Caliper LifeSciences (Bldg. Mgmt. Co.)

605 East Fairchild Drive

Mountain View, CA 94043

Attn: Farid Tawfik

Date Issued: **3/13/2013**

Effective Date: **3/20/2013**

Date Revised:

Date Expires: **5/1/2014**

Permit ID: **515**

**Jaymae Wentker**

Jaymae Wentker, Fire Marshal

EPA Category/Subcategory: **Metal Finishing/Metal Finishing (Copper)**

Reference: CFR 40, Section 433.10-12 & 433.17, New Source

**POST IN A CONSPICUOUS PLACE  
AT THE "PERMITTED FACILITY" SITE**

## I. Discharge Limitations:

Process Discharge (industrial waste) shall not exceed 2,430 Gallons Per Day (GPD).

(Location A1: 1730 GPD Location A2: 700 GPD )

Total Discharge (industrial and domestic waste) shall not exceed 3,180 Gallons Per Day (GPD).

## II. Special Conditions/Requirements:

1. All self-monitoring sampling results shall be submitted to the City upon receipt.
2. Continuously monitor pH using a strip chart recorder.
3. In lieu of monitoring for Total Toxic Organics (TTO) Caliper shall submit a Toxic Organic Management Plan. (CFR 433.12)

## III. Self-Monitoring Sampling Analysis:

Pollutant	Sampling Frequency	Sample Type	Sampling Location(s)*	Federal Maximum	Federal Avg. of daily values for 30 consec.days	Local Limit
				for any 1 day (mg/L)	(mg/L)	
<b>Cadmium</b>	Quarterly	Grab	A1, A2	0.11	0.07	.1
<b>Chromium, Total</b>	Quarterly	Grab	A1, A2	2.77	1.71	2
<b>Copper</b>	Quarterly	Grab	A1, A2	3.38	2.07	.25
<b>Cyanide</b>	Quarterly	Grab	A1, A2	1.2	0.65	.5
<b>Fluoride</b>	Quarterly	Grab	A1, A2	No Limit	No Limit	65
<b>Lead</b>	Quarterly	Grab	A1, A2	0.69	0.43	.5

\*Sampling Location A1 is in the equipment room (Location "D" on map 1 of 3) Sampling Location A2 is located at the dicing saw operation in Location "L" on map 1 of 3

#### IV. Wastewater Discharge Limits: (MVCC 35.32.12 & CFR 40)

Your industrial wastewater effluent shall not exceed the following limits:

Discharge Parameter	Federal Max. for any 1 day	Federal Avg. of daily values for 30 consecutive days	Local <sup>3</sup>	Discharge Parameter	Federal Max. for any 1 day	Federal Avg. of daily values for 30 consecutive days	Local <sup>3</sup>
Arsenic	No Limit	No Limit	0.1 mg/L <sup>1</sup>	Manganese	No Limit	No Limit	1.0 mg/L <sup>1</sup>
Barium	No Limit	No Limit	5.0 mg/L <sup>1</sup>	Mercury <sup>2</sup>	No Limit	No Limit	0.01 mg/L <sup>2</sup>
Beryllium	No Limit	No Limit	0.75 mg/L <sup>1</sup>	Nickel	3.98 mg/L	2.38 mg/L	0.5 mg/L
Boron	No Limit	No Limit	1.0 mg/L <sup>1</sup>	Oil & Grease	No Limit	No Limit	200 mg/L
Cadmium	0.11 mg/L	0.07 mg/L	0.1 mg/L <sup>1</sup>	Phenols	No Limit	No Limit	1.0 mg/L
Chromium Hex.	No Limit	No Limit	1.0 mg/L <sup>1</sup>	pH	No Limit	No Limit	5.0-11
Chromium, Total	2.77 mg/L	1.71 mg/L	2.0 mg/L <sup>1</sup>	Selenium	No Limit	No Limit	1.0 mg/L <sup>1</sup>
Cobalt	No Limit	No Limit	1.0 mg/L <sup>1</sup>	Silver, Photo	No Limit	No Limit	0.50 mg/L
Copper <sup>4</sup>	3.38 mg/L	2.07 mg/L	2.0 mg/L <sup>1</sup>	Silver, Non-Photo	0.43 mg/L	0.24 mg/L	0.25 mg/L
Copper	No Limit	No Limit	0.25 mg/L	Single Toxic Organic	No Limit	No Limit	0.75 mg/L
Cyanide	1.20 mg/L	0.65 mg/L	0.5 mg/L <sup>1</sup>	Suspended Solids	No Limit	No Limit	6000 mg/L
Fluoride	No Limit	No Limit	65 mg/L	Total Dissolved Solid	No Limit	No Limit	10000 mg/L
Formaldehyde	No Limit	No Limit	5.0 mg/L <sup>1</sup>	Total Toxic Organics <sup>6</sup>	2.13 mg/L	No Limit	1.0 mg/L <sup>1</sup>
Lead	0.69 mg/L	0.43 mg/L	0.5 mg/L <sup>1</sup>	Zinc	2.61 mg/L	1.48 mg/L	2.0 mg/L <sup>1</sup>

<sup>1</sup>If the daily discharge (averaged over a one year period) at any single sampling location exceeds 50,000 gpd, the local discharge limit for that location shall not exceed ONE-HALF (1/2) of the local limit listed above.

<sup>2</sup>Dental facilities using mercury-containing amalgam shall not exceed a local discharge limit of 0.05 mg/L for mercury.

<sup>3</sup>These limits refer to either grab or 24-hour composite samples.

<sup>4</sup>This limit applies only to the following EPA categories: Non-EPA Non-SIUs, Metal Finishing (Copper), and Electroplating. This limit also applies to cooling towers discharging < 2,000 gpd at any facility.

<sup>6</sup>See Section XIII of this permit for a list of components of Total Toxic Organics.

<sup>7</sup>Vehicle service facilities shall not exceed a local discharge limit of 4.0 mg/L for zinc.

#### V. Quality Assurance/Quality Control: (MVCC 35.32.13 & 40 CFR 136)

All metals samples must be collected in duplicate and stored and preserved until the next sampling event for that parameter. The duplicate sample must be labeled as a duplicate and made available to any City inspector.

#### VI. Sample Collection and Analysis: (MVCC 35.32.13.3, 40 CFR 403.12(g)&(h), 40 CFR 136)

All metals shall be collected as specified in the individual permit requirements. Cyanide and Total Toxic Organics (TTO) shall always be collected as grab samples. Samples shall be analyzed by an analytical laboratory approved by the State of Cal. Dept. of Health Services. Sample collection, preservation, and analysis shall be in accordance with EPA regulations (40 CFR 136) and the City of Mountain View's "Sample Collection, Analysis and Reporting Instructions".

#### VII. Violation Reporting & Follow-Up: (MVCC 35.32.6.2 & 40 CFR 403.12(f) & (g))

If the results of sampling or pH analysis exceed applicable limit(s), or any discharges meet the definition of hazardous waste, you shall:

- 1) VERBALLY NOTIFY THE CITY OF MOUNTAIN VIEW AT 650-903-6378 AND THE PALO ALTO WATER QUALITY CONTROL PLANT AT 650-329-2598 WITHIN 24 HOURS of knowledge of the violation. If an accidental discharge, slug discharge, or upset or failure of the pretreatment system occurs, verbal notification shall be made within 15 minutes of knowledge of the condition;
- 2) SUBMIT A WRITTEN REPORT WITHIN 15 WORKING DAYS of knowledge of the violation explaining: the cause, nature volume and duration of the violation, and mitigation measures taken to correct it and prevent reoccurrence;
- 3) INITIATE A SAMPLING/ANALYSIS PROGRAM demonstrating up to 21 consecutive days of compliance. The first sample result shall be submitted within 30 days of becoming aware of the violation.

#### VIII. Penalty Provisions: (MVCC 35.32.15)

Any person who violates any provision of this permit, "Notice of Violation", or Chapter 35 MVCC, may be subject to criminal, civil, or administrative penalties. Civil penalties shall not exceed \$25,000/day per violation. Administrative penalties shall not exceed the following: (1) \$2,000/day for failing or refusing to furnish technical or monitoring reports; (2) \$3,000/day for failing or refusing to comply with a compliance schedule; (3) \$5,000/day/violation for discharges in violation of any waste discharge limitation, permit condition, or requirement; and (4) \$10/gallon for discharges in violation of any suspension, cease and desist order, or any prohibition issued by the City.

### **IX. Record-Keeping Requirements: (40 CFR 403.12(o))**

All Industrial Users shall maintain records for all information resulting from any monitoring activities conducted. Such records shall include for all samples:

- 1) The date, exact place, method, and time of sampling and the names of the person or persons taking the samples;
- 2) The dates analyses were performed;
- 3) Who performed the analyses;
- 4) The analytical techniques/methods used; and
- 5) The results of such analysis.

All Industrial Users shall maintain for a minimum of 3 years any records of monitoring activities and results, and shall make such records available for inspection and copying by the City of Mountain View and Palo Alto Water Quality Control Plant. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Industrial User or the operation of the POTW Pretreatment Program or when requested by the Director or the Regional Administrator.

### **X. Notification of Changed Discharge: (40 CFR 403.12(j))**

All Industrial Users shall promptly notify the City of Mountain View at 650-903-6378 and the Palo Alto Water Quality Control Plant at 650-329-2598 in advance of any substantial change in the volume or character of pollutants in their discharge, including the characteristic hazardous wastes for which the Industrial User has submitted initial notification under 40 CFR 403.12(p).

### **XI. Notification of Bypass: (40 CFR 403.17(c)(2))**

All Industrial Users shall verbally notify the City of Mountain View at 650-903-6378 and Palo Alto Water Quality Control Plant at 650-329-2598 of an unanticipated bypass (intentional diversion of its wastestream from the treatment facility) within 24 hours from the time the Industrial User becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the Industrial User becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.

### **XII. Transferability of Permit: (MVCC 35.32.2.4)**

This permit is not transferable without prior written notification to and approval by the City and the assumption of all permit conditions by the new owner/operator.

### **XIII. Definition of Total Toxic Organics: (40 CFR 469.12)**

The term "total toxic organics" (TTO) means the sum of the concentrations for each of the following toxic organic components found in the discharge at a concentration greater than ten (10) micrograms per liter. The facility's local TTO and STO limits apply to all of the compounds listed below. Those compounds analyzed using EPA Method 601/602 or 624 are identified by a "■".

■ Acenaphthene	■ 2-Chlorophenol	■ Methyl bromide	■ Diethyl phthalate	■ 4,4-DDT
■ Acrolein	■ 1,2-Dichlorobenzene	■ Bromoform	■ Dimethyl phthalate	■ 4,4-DDE
■ Acrylonitrile	■ 1,3-Dichlorobenzene	■ Dichlorobromomethane	■ 1,2-Benzanthracene	■ 4,4-DDD
■ Benzene	■ 1,4-Dichlorobenzene	■ Chlorodibromomethane	■ Benzo(a)pyrene	■ Alpha-endosulfan
■ Benzidine	■ 3,3-Dichlorobenzidine	■ Hexachlorobutadiene	■ 3,4-Benzofluoranthene	■ Beta-endosulfan
■ Carbon tetrachloride	■ 1,1-Dichloroethylene	■ Hexachlorocyclopentadiene	■ 1,1,12-Benzofluoranthene	■ Endosulfan sulfate
■ Chlorobenzene	■ 1,2-Trans-dichloroethylene	■ Isophorone	■ Chrysene	■ Endrin
■ 1,2,4-Trichlorobenzene	■ 2,4-Dichlorophenol	■ Naphthalene	■ Acenaphthylene	■ Endrin aldehyde
■ Hexachlorobenzene	■ 1,2-Dichloropropane	■ Nitrobenzene	■ Anthracene	■ Heptachlor
■ 1,2-Dichloroethane	■ 1,3-Dichloropropylene	■ 2-Nitrophenol	■ 1,12-Benzoperylene	■ Heptachlor epoxide
■ 1,1,1-Trichloroethane	■ 2,4-Dimethylphenol	■ 4-Nitrophenol	■ Fluorene	■ Alpha-BHC
■ Hexachloroethane	■ 2,4-Dinitrotoluene	■ 2,4-Dinitrophenol	■ Phenanthrene	■ Beta-BHC
■ 1,1-Dichloroethane	■ 2,6-Dinitrotoluene	■ 4,6-Dinitro-o-cresol	■ 1,2,5,6-Dibenzanthracene	■ Gamma-BHC
■ 1,1,2-Trichloroethane	■ 1,2-Diphenylhydrazine	■ N-nitrosodimethylamine	■ Indeno(1,2,3-cd) pyrene	■ Delta-BHC
■ 1,1,2,2-Tetrachloroethane	■ Ethylbenzene	■ N-nitrosodiphenylamine	■ Pyrene	■ PCB-1242
■ Chloroethane	■ Fluoranthene	■ N-nitrosodi-n-propylamine	■ Tetrachloroethylene	■ PCB-1254
■ Bis(2-chloroethyl) ether	■ 4-Chlorophenyl phenyl ether	■ Pentachlorophenol	■ Toluene	■ PCB-1221
■ 2-Chloroethyl vinyl ether	■ 4-Bromophenyl phenyl ether	■ Phenol	■ Trichloroethylene	■ PCB-1232
■ 2-Chloronaphthalene	■ Bis(2-chloroisopropyl) ether	■ Bis(2-ethylhexyl) phthalate	■ Vinyl chloride	■ PCB-1248
■ 2,4,6-Trichlorophenol	■ Bis(2-chloroethoxy) methane	■ Butyl benzyl phthalate	■ Aldrin	■ PCB-1260
■ Parachlorometa cresol	■ Methylene chloride	■ Di-n-butyl phthalate	■ Dieldrin	■ Toxaphene
■ Chloroform	■ Methyl chloride	■ Di-n-octyl phthalate	■ Chlordane	■ TCDD